

IN THE CLAIMS:

1. (Currently amended) An insulation package system arrangement for insulating an interior of an aircraft fuselage, the aircraft comprising:

a fuselage, the fuselage including whose structural unit not only includes a plurality of stringers stiffening with which all the panels of an outer skin of the aircraft fuselage structure are stiffened, but also several and a rib ribs which are arranged substantially perpendicularly to a longitudinal direction along an axis of the fuselage of the aircraft, the rib being at a specified distance, and which are attached to one of the plurality of the stringers at a first end of the rib and having, with a rib carrier being integrated into said ribs the rib on an the unattached end of the rib and a rib attachment region disposed between the first end and the rib carrier, the rib attachment region having a through-hole through the rib attachment region carrier of the aircraft, in which arrangement several; and

a pair of fuselage insulation packages, each of the fuselage insulation packages comprising:

a first flat insulation end section integrally extending outwardly from an first end of the fuselage insulation package and having a first length;

a second flat insulation end section integrally extending outwardly from a second end of the fuselage insulation package opposite to the first end of the fuselage insulation package and having a second length shorter than the first length of the first flat insulation end section; and

a foil enclosing a burn-through-proof insulation or a burn-through-proof barrier layer or both a burn-through-proof insulation having a first thickness and a burn-through-proof barrier layer having a second thickness less than the first thickness of the burn-through-proof insulation; and

a burn-through-proof attachment element having a first retainer end at one end of the attachment element and a second retainer end at an opposite end of the attachment element, the attachment element being disposed through the through-hole of the rib attachment region such that the first retainer end is on one side of the rib attachment region and the second retainer end is on the opposite side of the rib attachment region, wherein the first retainer end of the attachment element attaches both of the first flat insulation end section of one of the pair of fuselage insulation packages and the second flat insulation end section of the other of the pair of fuselage insulation packages to the rib attachment region of the rib through a hole in each of the first flat insulation end section and the second flat insulation end section of the pair of fuselage insulation packages such that a portion of each of the pair of fuselage insulation packages overlap, and the one of the pair of fuselage insulation packages being attached by the hole in the first flat insulation end section is retained on the opposite side of the rib attachment region by passing the second retainer end of the attachment element through a second hole formed in the respective one of the pair of fuselage insulation packages.

which comprise an elongated package shape are situated in the direction of the longitudinal axis of the aircraft at the fuselage structure of the aircraft, wherein said fuselage insulation packages which longitudinally rest against a support surface of the stringers which are attached to the aircraft fuselage or which are placed so as to rest against an inner area of a panel of the

~~outer skin, and these fuselage insulation packages are attached on a longitudinal side of the ribs, which additionally are arranged so as to be completely enclosed by a foil and within a space enclosed by interior paneling and by the panels of an outer skin; whose design is implemented with burn-through proof insulation of a larger cross section and/or with a burn-through proof barrier layer of a smaller cross section, which are arranged either individually or in combination within the fuselage insulation package, in which the insulation or the barrier layer is guided so as to be situated either close to or resting against an interior wall region of the foil wall, or only the insulation is attached outside and resting against the circumference of the foil of the fuselage insulation package, which on the long end of the fuselage insulation package continues outward with a flat insulation end section which in a rib attachment region arranged below the longitudinal sides of a rib and adjacent to the stringer is attached with burn-through proof attachment elements to the rib.~~

2. (Currently amended) ~~The~~ An insulation package arrangement of claim 1 for insulating an interior of a fuselage of an aircraft, the fuselage comprising a plurality of stringers for stiffening of an outer skin of the fuselage and at least two ribs arranged substantially perpendicularly to a longitudinal axis of the aircraft at a specified distance, the at least two ribs being attached to one of the plurality of stringers, and the at least two ribs each comprise a rib carrier being integrated into said ribs at an unattached end of the at least two ribs, an attachment end attaching each of the at least two ribs to one of the plurality of stringers, and a rib attachment region being arranged below a longitudinal side of each of the at least two ribs adjacent to the attachment region, the insulation package arrangement comprising:

at least two fuselage insulation packages having an elongated package shape, and being situated in a direction of a longitudinal axis of the fuselage, wherein the fuselage insulation packages rest longitudinally against a support surface of one of the plurality of stringers;

wherein the fuselage insulation packages are attached to the fuselage or are placed to rest against an inner area of a panel of the outer skin;

wherein the fuselage insulation packages are arranged to be completely enclosed by a foil and within a space enclosed by interior paneling and by panels forming the outer skin of the fuselage;

a burn-through-proof attachment element, wherein each of the at least two fuselage insulation packages continue outward with a flat insulation end section on an end of the fuselage insulation package such that the at least two fuselage insulation packages are attached overlappingly with the burn-through-proof attachment element to one of the at least two ribs in the rib attachment region of the respective one of the at least two ribs; and[[],]

wherein in the rib attachment region a through hole is drilled through the rib attachment region, and a first hole is formed in a package region of each of the at least two fuselage insulation packages, and a second hole is formed in the flat insulation end section of each of the at least two fuselage insulation packages, wherein the first hole and the second hole are retained on opposite sides of the rib attachment region by the burn-through-proof attachment element which on one side adjoins a front or rear arranged longitudinal side of the rib, there is a hole like leadthrough, and the ongoing insulation end section, which on the other side is arranged so as to be adjacent to a front or rear arranged longitudinal side of the rib, comprises a hole-like recess.

3. (Currently amended) The insulation package arrangement of ~~claim 1~~claim 2, wherein
~~the burn-through-proof attachment element comprises a first attachment element, which has~~
~~been implemented with a burn-through-proof insulation pin, and the burn-through-proof~~
~~attachment element is fed through the first hole of one of the at least two insulation packages,~~
~~the through hole of a respective one of the at least two ribs and the second hole of each of the at~~
~~least two insulation packages, when hole-like leadthrough, through the through hole and~~
~~through the hole-like recess, provided the latter are arranged so as to be substantially~~
congruently aligned.

4. (Currently amended) The insulation package arrangement of claim 3, wherein the
~~design of the insulation pin has been implemented with an elongated cylindrical core element~~
~~and which near the end of the pin comprises a flange-like elevation formed at each end of the~~
~~core element, and a cylindrical plastic-like casing formed around the core element.~~

5. (Currently amended) The insulation package arrangement of claim 4, wherein the core
element is embedded in the ~~plastic-like~~ casing made of a ~~plastic-like~~ material.

6. (Currently amended) The insulation package arrangement of claim 4, wherein
~~approximately in the middle of the casing a flange extends outwardly in a radial direction from~~
~~a middle portion of the insulation pin, and a plurality of exits, from which, starting at the~~
~~cylindrical circumference of the casing and substantially parallel to the core element across its~~
~~extended length, several pine-tree-shaped elevations are formed in the casing along the surface~~

of the casing along the length of the insulation pin, such that the ridges formed by the pine-tree-shaped elevations are positioned which are arranged so as to be spaced apart from each other.

7. (Cancelled)

8. (Currently amended) The insulation package arrangement of claim 4, wherein the end region of the casing is dome-shaped, in the form of a recess, wherein the external shape of said end region has the shape of a paraboloid, comparable to the shape of a parabolic rotation body whose longitudinal section has been realized with a parabolic shape, wherein and the branch end of the parabola is continued by a stepped gradation drawn inward vertically radially in relation to the pin axis.

9. (Currently amended) The insulation package arrangement of claim 4, wherein the core element is made from metal, namely a steel, preferably a stainless steel, and the casing comprises a plastic of poor having a much lower thermal conductivity than the thermal conductivity of the metal of the core element.

10. (Currently amended) The insulation package arrangement of claim 1, further comprising a second attachment element, wherein the design of the second attachment element is implemented with shaped as a truncated-cone body whose base area and cover area are implemented with insulation discs or ring elements which are designed so as to be burn-through

proof, being joined by a burn-through-proof insulation jacket on the side of the disc margin or ring margin by a disc or ring of a larger external circumference.

11. (Currently amended) The insulation package arrangement of ~~claim 8~~claim 10, wherein the cover area of the truncated-cone body comprises a first insulation disc with a, ~~where a hole formed has been made in the middle portion of the first insulation disc, the whose diameter of the hole being less than~~ is smaller than or almost the same as the external diameter of the end region, ~~in the shape of a paraboloid~~, of the dome-shaped casing such that the second attachment element fits over the dome-shaped casing of the first attachment element, so that the holed wall of the insulation disc may be guided with a tight fit over the branch end of the parabola of the parabolic end region of the casing.

12. (Previously presented) The insulation package arrangement of claim 10, wherein the cover area of the truncated-cone body comprises a first plastic-like insulation ring of a larger circumference and a second plastic-like insulation ring of a smaller circumference, wherein on the interior diameter of the first insulation ring and on the exterior diameter of the second insulation ring, several insulation braces, spaced apart on the circumference, are attached in vertical position.

13. (Cancelled)

14. (Currently amended) The insulation package arrangement of ~~claim 13~~claim 10, wherein ~~the a~~ disc-shaped core element is embedded in ~~the plastic like a~~ casing.

15. (Currently amended) The insulation package arrangement of ~~claim 13~~claim 14, wherein the disc-shaped core element is made from ~~a metal, namely a steel, preferably a stainless steel~~, and the casing ~~of the core element~~ comprises a plastic ~~of poor~~ having a lower thermal conductivity than the metal of the disc-shaped core element.

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Currently Amended) The insulation package arrangement of claim 1, further comprising an additional ~~wherein the further attachment element, wherein the additional~~ attachment element is a rivet, comprising steel or titanium, or is a screw connection element comprising steel or titanium or plastic.

22. (Currently amended) The insulation package arrangement of claim 21, wherein
the additional attachment element is a screw connection element and the screw connection
element is retained by a - is a screw and nut made from an aramide or a CFK material.

23. (New) The insulation package system of claim 1, wherein the foil encloses both a burn-through-proof insulation having a first thickness and a burn-through-proof barrier layer having a second thickness less than the first thickness of the burn-through-proof insulation.

24. (New) The insulation package system of claim 1, wherein the attachment element comprises a first retainer attached to the first retainer end and a second retainer attached to the second retainer end such that the first retainer covers the hole in each of the flat insulation sections of the pair of fuselage insulation packages and the second retainer covers the hole in the respective one of the pair of fuselage insulation packages on the opposite side of the rib attachment region.

25. (New) The insulation package system of claim 24, wherein the attachment element further comprises a burn-through-proof pin, the pin extending from the first retainer end to the second retainer end, the pin having a first retention flange at one end of the pin and a second retention flange at an opposite end of the pin.

26. (New) The insulation package system of claim 25, wherein at least a portion of the pin is encased in a plastic casing.

27. (New) The insulation package system of claim 26, wherein the plastic casing includes a central flange disposed between the first retainer end and the second retainer end, the central flange extending outwardly, in a radial direction from the pin.

28. (New) The insulation package system of claim 27, wherein the plastic casing defines a three-dimensional shape having a plurality of pine-tree-shaped elevations on each of the first retainer end and the second retainer end for retaining the first retainer and the second retainer, respectively.

29. (New) The insulation package system of claim 28, wherein the first retainer and the second retainer are each comprised of a disk of a first burn-through-proof material having a central hole and a first surface and a second surface opposite of the first surface and a shaped flange encasing at least a portion of the disk and extending from the disk in the direction of one of the first surface or the second surface, the shaped flange being of a second material, different than the first material.

30. (New) The insulation package system of claim 29, wherein a surface of the shaped flange of the first retainer and the second retainer is formed in the shape of a paraboloid.